## In the Claims

Please amend the claims as follows:

- 1. to 16. (cancelled)
- 17. (new) A telecommunications system comprising:
- a packet mode switch fabric;

a source device and a destination device, said source device being connected to said destination device by a channel through the switch fabric and traffic from said source device to said destination device being carried as a stream of packets on said through channel; and

a switch means for replicating said stream of packets and communicating said replicated packet stream to a network device over a channel connecting the through channel to the network device.

- 18. (new) A telecommunications system as claimed in claim 17, wherein said stream of packets on said through channel comprises a call between the source device and the destination device and wherein the step of replicating the stream of packets includes only performing replication of the stream of packets in association with a call activity.
- 19. (new) A telecommunications system as claimed in claim 18, wherein replication of the stream of packets is performed in association with a call activity comprising one of tone reception/generation, facsimile demodulation, echo cancellation and call announcement generation.
- 20. (new) A telecommunications system as claimed in claim 17, wherein traffic is carried bi-directionally between the source device and the destination device by first and second packet streams on respective first and second channels and said

means for replicating replicates each of said first and second packet streams and communicates the replicated streams to the network device on respective connecting channels.

- 21. (new) A telecommunications system as claimed in claim 17, wherein said switch means for replicating the stream of packets comprises a switch.
- 22. (new) A telecommunications system as claimed in claim 17, wherein the switch fabric comprises a packet mode switch.
- 23. (new) A telecommunications system as claimed in claim 17, wherein said switch fabric comprises a network having:

a plurality of interconnected switching devices; and

an access network comprising a plurality of circuits and a plurality of network devices connected to said switching devices, wherein said means for replicating the stream of packets comprises one of said switching devices.

- 24. (new) A telecommunications system as claimed in claim 23, wherein said through channel comprises a packet stream part of an end to end circuit across the network, said circuit extending through a time division multiplexed (TDM) access channel on a source device side of the network, through said packet stream channel and through a TDM access channel on a destination device side of the network, said switching devices including adaptation devices for converting traffic between a TDM mode and a packet stream mode.
- 25. (new) A telecommunications system as claimed in claim 24, wherein said end to end circuit between said source device and said destination device comprises first and second channels carrying respective first and second packet streams and said means for replicating the packet stream replicates each of said first

and second packet streams and directs each of them on respective connecting channels to the network device.

- 26. (new) A telecommunications system as claimed in claim 17, wherein said means for replicating the stream of packets broadcasts said replicated stream of packets to a plurality of network devices on respective connecting channels.
- 27. (new) A telecommunications system as claimed in claim 17, wherein said network device comprises a voice processing device.
- 28. (new) A telecommunications system as claimed in claim 17, wherein said network device comprises an intelligent peripheral device.
- 29. (new) A telecommunications system as claimed in claim 17, wherein said network device comprises a network service provider device.
- 30. (new) A telecommunications system as claimed in claim 17, wherein said through channel comprises a circuit switched connection through the switch fabric between the source device and the destination device.
- 31. (new) A telecommunications system as claimed in claim 17, wherein the network device is co-located with the replicating means.
  - 32. (new) A telecommunications system comprising:

a circuit switched switching network;

a source device and a destination device, said source device being connected to said destination device by a circuit switched connection through the switching network, said circuit switched connection having a packet mode portion for carrying traffic from the source device to the destination device as a packet stream; and

a switch element for replicating said stream of packets at said packet mode portion of the circuit switched connection and communicating said replicated packet stream to another circuit.

- 33. (new) A telecommunications system as claimed in claim 32, wherein said stream of packets on said packet mode portion comprises a call between the source device and the destination device and wherein the step of replicating the stream of packets includes only performing replication of the stream of packets in association with a call activity.
- 34. (new) A telecommunications system as claimed in claim 33, wherein replication of the stream of packets is performed in association with a call activity comprising one of tone reception/generation, facsimile demodulation, echo cancellation and call announcement generation.
- 35. (new) A telecommunications system as claimed in claim 32, wherein said replicated stream of packets is communicated to a network device on a packet mode circuit connecting the network device to the packet mode portion of the circuit switched connection.
- 36. (new) A telecommunications system as claimed in claim 35, wherein the network device comprises a voice processing device.
- 37. (new) A telecommunications system as claimed in claim 35, wherein the network device is co-located with the switching element.
- 38. (new) A telecommunications system as claimed in claim 35, wherein the network device comprises an intelligent peripheral device.

- 39. (new) A telecommunications system as claimed in claim 32, wherein traffic is carried bi-directionally between the source device and the destination device by first and second packet streams on respective first and second channels of the packet mode portion of the circuit switched connection and said means for replicating replicates each of said first and second packet streams and communicates the replicated streams to the network device on respective channels of the another circuit.
- 40. (new) A communications network switch capable of establishing a circuit switched connection for the transport of packets comprises:

a plurality of through channels capable of carrying packet streams through the switch;

a plurality of adaptation devices for adapting incoming traffic flows to respective packet streams and supplying said streams to respective through channels; and

means for replicating a packet stream on a selected through channel and communicating the replicated packet stream to another channel.

- 41. (new) A switch as claimed in claim 40, wherein each respective packet stream on a through channel comprises a call between a source device and a destination device and wherein the step of replicating a stream of packets includes only performing replication of that stream of packets in association with an activity of a call comprising said stream of packets.
- 42. (new) A switch as claimed in claim 41, wherein replication of a stream of packets is performed in association with a call activity comprising one of tone reception/generation, facsimile demodulation, echo cancellation and call announcement generation.

- 43. (new) A switch as claimed in claim 40, wherein the another channel comprises a packet mode channel which connects the through channel whose packet stream is being replicated to a network device.
- 44. (new) A switch as claimed in claim 43, wherein said network device comprises a voice processing device.
- 45. (new) A switch as claimed in claim 44, wherein the voice processing device is co-located with the switch.
- 46. (new) A switch as claimed in claim 40, wherein the means for replicating the packet stream communicate the replicated packet stream to a plurality of other channels.
- 47. (new) A switch as claimed in claim 40, wherein traffic is carried bidirectionally on said circuit switched connection by first and second packet streams on respective first and second channels of said packet mode portion of the circuit switched connection and said switching elements replicates each of said first and second packet streams and supplies the replicated packet streams to respective connecting channels.
- 48. (new) A method of replicating communications traffic on a communications circuit between a source device and a destination device, comprises the steps of:

providing a communications circuit between said source device and said destination device through a switch fabric, said circuit comprising a packet stream channel in said switch fabric:

providing a packet mode channel connecting said through channel to a network device;

replicating a stream of packets carried on said through channel; and

supplying said replicated packet stream to the network device.

- 49. (new) A method as claimed in claim 48, wherein said stream of packets on said through channel comprises a call between the source device and the destination device and wherein the step of replicating the stream of packets includes only performing replication of the stream of packets in association with a call activity.
- 50. (new) A method as claimed in claim 49, wherein replication of the stream of packets is performed in association with a call activity comprising one of tone reception/generation, facsimile demodulation, echo cancellation and call announcement generation.
- 51 (new) A method as claimed in claim 48, wherein the step of replicating traffic comprises replicating traffic carried bi-directionally between the source device and the destination device by first and second packet streams on respective first and second channels and communicating each of the replicated first and second packet streams to the network device on respective connecting channels.
- 52. (new) A method as claimed in claim 48, wherein the communication circuit comprises a time division multiplexed (TDM) portion and a packet mode portion and the method includes the steps of:

converting an incoming traffic flow from a TDM mode to a packetised mode; inputting a stream of packets containing said traffic to a switching element; transporting said packet stream between an input and an output of the switching element; and

replicating said packet stream within the switching element.

- 53. (new) A method as claimed in claim 48, wherein the step of supplying the replicated packet stream to a network device comprises supplying said replicated stream of packets to a voice processing device.
- 54. (new) A method of replicating a traffic packet stream in a circuit switched communications network comprises the steps of:

providing a circuit switched connection between a source device and a destination device through a network switch fabric;

transporting traffic on a packet mode portion of said circuit switched connection as a stream of packets;

replicating said stream of packets at said packet mode portion of the circuit switched connection; and

supplying said replicated stream of packets to another circuit.

- 55. (new) A method as claimed in claim 54, wherein said stream of packets on said packet mode portion comprises a call between the source device and the destination device and wherein the step of replicating the stream of packets includes only performing replication of the stream of packets in association with a call activity.
- 56. (new) A method as claimed in claim 55, wherein replication of the stream of packets is performed in association with a call activity comprising one of tone reception/generation, facsimile demodulation, echo cancellation and call announcement generation.
- 57. (new) A method as claimed in claim 54, wherein said step of replicating the stream of packets is performed by a switching element.

- 58. (new) A method as claimed in claim 54, wherein said replicated stream of packets is communicated to a network device on a packet mode circuit connecting the network device to the packet mode portion of the circuit switched connection.
- 59. (new) A method as claimed in claim 54, wherein the step of supplying the replicated packet stream to a network device comprises supplying said replicated stream of packets to a voice processing device.
- 60. (new) A method as claimed in claim 54, wherein the step of replicating traffic comprises replicating traffic carried bi-directionally between the source device and the destination device by first and second packet streams on respective first and second channels of the packet mode portion of the circuit switched connection and supplying each of the replicated first and second packet streams to respective channels of the another circuit.
- 61. (new) Software on a machine readable medium for carrying out a method of replicating communications traffic on a communications circuit between a source device and a destination device, the method comprising the steps of:

providing a communications circuit between said source device and said destination device through a switch fabric, said circuit comprising a packet stream channel in said switch fabric;

providing a packet mode channel connecting said through channel to a network device;

replicating a stream of packets carried on said through channel; and supplying said replicated packet stream to the network device.

62. (new) Software on a machine readable medium for carrying out a method of replicating a traffic packet stream in a circuit switched communications network, the method comprising the steps of:

providing a circuit switched connection between a source device and a destination device through a network switch fabric;

transporting traffic on a packet mode portion of said circuit switched connection as a stream of packets;

replicating said stream of packets at said packet mode portion of the circuit switched connection; and

supplying said replicated stream of packets to another circuit.

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